BMHA Newsletter

MOBILE HAMS OF

Volume II Bumber 3

July 1991

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ABOUT BMHA

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Bicycle Mobile Ress of America got its start when a "Stray" in the June '89 issue of QST asked to "got in touch with hams who operate bicycle-mobile, or in any other huma-powered conveyance", signed by Bartley Alley, MAGA.

25 hams responded, filled out questionmaires, and received a summry of the collected tufo.

Then in April of '90 we had our first BMRA Porem at the Dayton Hamfention. We played to a packed house, overflowed the tiny room assigned to us, and added 54 sames to our mailing list. Our '91 force at the Banvention was again well-attended, and now BEHA is on the way to being established as a "regular" at this Apposi event.

This is the fourth issue of our nembetter, Inspite of the summ! swimerd beginning period the BIGIA Reseletter has become a clearing boose for the machange of tato and ideas for the ham who go on the air from thaty bicyclus.

Since Last January our paid membership has grown from 47 to 109.

BMHA NET. . . ON 20

The BMHA HF net is still going strong and has become a regular meeting place for bikie-hams, whether out on the bike or just sitting in the shack.

Mike Mickelaus, FFOM, the net control, will call the net from RAGBRAI the manmoth ride across lown, Listen for Nike and check into the net on Sunday July 21. After an 80 mile day on the bike Mike will call the net from his motor home.

Freq ---- 14.253 (plus ar minus three) Time ---- 2330 DTC Day ---- 1st & 3rd Sunday of each wouth

EDITOR'S COLUMN

Just yesterday I sprung for a PC -m full-blown 386 with the capability of doing many different things. I'll be able to run packet, munitur HF for DX, and do wordprocessing, all at the same time. But most important, I have PageMaker and an HP 111-H laser printer, all of which means that the next issue of the BKHA FewsLetter should look pretty slick. Now all I have to do is learn how to run this fearsoms equipment.

I'd like to again invite all you bikie-hams to send in your writings about your rigs, your home-brewings, your adventures, your experiences while bicyclemobile. To those who missed their DEADLINES, please buckle down and get your stuff in for the October issue. The deadline is Aug 20. TO THEY WAS BUTTED SE'

Ve'll soon start dickering with the Forum Chairman for a Seturday or Friday place up the program. Consensus seems to be that Sunday is the least desirable of the three days. More later.

TREASURY REPORT

Fiscal year July 1, 1990 to June 30, 1991

Dues money received:

\$815.50

Expenses:

Terox 322, 15

221.55 postage

stationery & misc. 70.20

Total Expenses 613.90 \$201.60

Bank balance on band:

As you can see, we're still just squeaking by. In a separate mailing, members will soon receive notice that renewal of membership fee is due.

Thanks to all who wished me speedy recovery. The doctors and I are happy with the progress. I'm walking an hour a day at a good clip, and cycling 15 to 20 miles, 2 or 3 days a week.

---- WAOA, Editor

HELPING THE NON-HAMS

PUBLIC SERVICE AND THE SICYCLY MOBILE HAN

I put my bloycle mobile gast together for the fun end enjoyment of operating while on the road. I also had in mind the ability to omil for help if I ever would need it. I did not anticipate using the aquipment for any kind of public mervice, but abortly after getting the metup working on my road bike, there was an MS Valk-A-Thom here in Boulder.

i volunteered my services as a trouble-shouter on a bike, and atthout really thinking about it, added that I had bicycle mobile capabilities if that would help, and that I would be communicating with the other bear who would be working the event. The idea was immediately ambraced, and on the day of the event, my tectical call became 'bicycle one'. I didn't brow what hind of terrain I would need to go over, so I rode my mountain bike. As with my touring bike, I etrapped the BT to the handlebare at the size with a small piece of bunges, and used on 35-10 boom mig.

It was an uneventful day, except for the rest stop outhouses blowing over every on often! thoulder to an exceptionally windy town. Then it rankly bloom here — 100 mph — we wind up on exticual TV.) At the rest stop where the johns had blows over. I had to relay some messages to not control. The other nameous stationed at the stop could not be heard over the wind noise, but my boom mic man completely impervious! This is among to the first was headled. I began to realize the potential that bicycle mobile operators have for helping out at an organized event.

Later in the year, I signed up to ride a local contemp event. The eponearing broycle club had traditionally made a React (CE) group for communications and mag support. In the last few years that I have ridden in this event, I felt the CE are seen sincerely trying to help, but their organizational skills and the propagation of their il mater white made for a pretty marginal operation at best, I decided to take my TE-21 and my new 5/8 wave rack-mounted wert along for the ride, de I police into the first rest stop, I discovered a suspictors locking license plate in the parking lot. To my delight, I found that a local group of hams had volunteered to provide communications:

The has at the rest stop encouraged me to check foto the ast, I thought I would not be able to make the repeater with one unti, but the 5/8 wave came through, and I checked in. As lock would have it, I came upon an ambolance and a state patrol car within three miles of the rest stop. They were leading a young woman into the ambulance. I get as much of the story as I could from the state trooper, and called it in to not control. The best con impediately get in touch with the president of the bibe club she drove up just as the embulance was inaving. He may quite impressed with the response and professionalism of the ham involved.

I was able to farward the young indy's name and condition (severe mancie cramps) to not control, and they were able to contact her family to tell them her condition and what hospital she was in. For the next two hours, cyclists were reporting the incident as they got to other rest stops. Thesever we got shother report, I was able to talk with the other rider to ascertain whether it was the same incident and thus present a lot of reaning around for pothing.

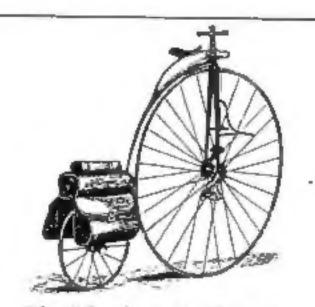
I maked to call in quite a few mag requests as well as some repair requests. I was now really convinced that the bicycle mobile operator has a real piece to those types of organized activities.

The last, and largest event of the year was apother MS sponsored event, with three bicycle rides around and through Soulder. There were neveral hand lovelyed as communicators, but as I found out later, with the exception of the net control and two beas in mag wagons, the rest were all reasing the course in their cars. I shocked to do the 100 M route. By 7:00 in the moveing I was stoffing donute and half-frozen cronge juice late my face. I lat a hundred or no of the first riders go before I started, then I just followed the course as I had on the previous ride, pedalling slong and monitoring the bet. It was much the name, calls for mag and impair support, and enjoyment of the ride!

Samehore out to the widdle of Jarm country, a call west dut for "sag one" and any repetr vehicle. There was no has in that was rehicle, and none of the repetr only had home. As direcumtance would directly, I spotted the was rebicle and waved his over. Right then a repetr vehicle rounded the corner and I flagged his down as well. How is it possible that within minutes of requesting two rowing vehicles, that the sole hicycle mobile exating could find both of them in the same place?

Especiations aside, the Dicycle mobile has a place is public service. Next time you get called upon to do a little public service, give a thought to using both of your hobbies for a good cause. Of course the fact that the events are lots of for has nothing to do with it...

Les Kuppl, KDOPC B VASSIA 4990 Deags br. ACS Boulder, CD 60303



The "Gentleman's Bondster,
Fitted with Luggage Carrier and Registered Bag (patent Lock),
constructed to carry a change of lines, a suit of clothes, sharing
and dressing tackle, read-map, and a macintosh or cape.

SAFETY

DPERATING HANDS-FREE IN BIG-CITY TRAFFIC

Bicycle mobile commuting in an orber area can't be done as casually as in the country. We all went our on-bicycle radio rigs to be afficient, reliable and easy to operate, but the overriding consideration in an area like metropolitan Boston is enforty. It's obvious that a system that compromises safety should never be used. And with that is mind, the following system is predicated on beving a bicycle with straight handlebars, which allows the rider's bands to be at the brakes at all times.

SOUT PREST

By equipment consists of as Icon IC-21T with an RS-10 bestest, and a modified RS-1058 switch box.

The RT is in a long carrying bag -- available at most bike shop -- atrapped vertically to the handlebars at the gooseneck. The antenns is a J-pole made according to the excellent instructions in AE2T's article (see BEEA Besseletter, April 1991, pp. 2,3.)

MODIFYING THE STITCH BOX

For ease of operation, I replaced the threeposition toggle switch with a momentary contact SPST poshbutton type of switch -- Radio Shack 275-1571 or equivalent.

Take a small katfe and rup it between the top metal plate and the plantic case. Gently remove the plate and the back of the box De-ander the two wires coming from the circuit board at the switch. In order to remove the ewitch you will have to remove the screw that holds the circuit board. Take the plate and wides the slot enough to mount the pushbetton switch. Rake care that you measure the body of the switch as you know it will clear the circuit board. Re-Install the plate with some adhesive-like robber common that will allow its removal later in case of trouble.

Solder the two leads from the circuit board to the switch and replace the back. Then mount the box anderceath the right or left side of the bandlebar with the switch facing inward so that when your hands are in sorem) riding position you can operate the pushbutton with your thumb. Rounting the switch box with slactrical tape works well

The vulnerable spot in the system is that the mini phone jack on the box inevitably gets banged around and ceases to work. The snewer is to tack-molder stres to the circuit board and run as external te-line jack. It isn't pretty, but it is thoroughly reliable.

MODERNING THE J-POLY

Take a suitable length of 1 1/4" dowel and drill a 3 or 4 inch hole down the center aqual to the C.D. of your tobing. Mount the dowel near the back of your rear certier with two home clamps, using the diagonal brace as the other factoring point. If it is not straight up and down, a shin will do bitcly. Again, this system is not pretty, but it is absolutely solid and stable. And it needs no maintenance.

Rappy and safe commuting!

Lauria Cota, ECIRS 36 Circuit St Vent Medford, NA 02155



BURA BRUSLETTER

BDITOR: Bortley Alley Made

BOARS OF ADVISORS: Pussell Decrebute KBAD. Len Koppl EDORC, Wite Micholaum MFON, Bob Pulha; KBSZJ

We welcome articles, suggestions, encountements, letters, photos, artwork --- anything pertaining to biopoling while operating an ametaur radio, or vice versat

Submitted material will be edited for clarity, and if necessary, shortened to fit space constraints.

Martial should be submitted before Dec.1, Marti, Juan 1. or Hept.1 for inclusion in the ensuing immen.

SELA REVSLETTED in the quarterly publication of the Bioyole Mobile Heme of America. Issued to Jan, Apr. July, and Oct.

THLEPSKITE: 303-494-6569

BICYCLE MOBILE SAME OF AMERICA (BMSA) Box 4000, Boulder, Colorado 50306

ARRUAL DUDS: A10



BITS AND PIECES

BEERMOTH

Don't wise the current (August)
issue of BICYCLING magazine. Turn to page 56
and you'll be dazzled by the double-page
photo of BKRA'er Steve Roberts, NARVE, and
his 1.2 million dollar bicycle. Tes,
31,200,000; Steve's bike and trailer is
loaded with all kinds of electronic and
communication gear including, of course, has
redice. All told it weighs about 350 lbs,
hence the name. BERENOTE.

As a break-in. Steve will ride RAGBRAI, the July 21-27 Great Ride Across lows, and from there a swing to New York and the long trek back to his home base in California. We expect Steve will be checking into the BNHA set -- see page 1.

CW ORLY

From a BNHA'er who rides a Schwinn and a Harley: "The Motorcycle Post Office Fet (MPO) meets most days around 14063 khz at 2130 UTC. All weak-signal formal Radiogram Traffic walcome, such as that from bicycle mobile stations. Send inquiries to MX11, MPO Net Manager, 79 Hancock St. Lexington, NA 02173."

CLUBS & EVENTS

THE MOB PIDES AGAIN

Twenty three of the 180 members of the Downey (California) Amateur Radio Club operate bicycle mobile of one time or acother. All operate 2 meter simples and all use ETs with most ranging long J-pole acteanus.

Downey is located on a network of hundreds of miles of paved bicycle paths which run along La basin river bads. These paths provide bicycle mobiles with ample opportunities for short or long rides with minimal exposure to high traffic density streets.

DARC's "MOS" (Robile On a Sike) le not exactly a group of youngeters. Although the youngest is in his nerly twenties, most are much older, the oldest being over seventy. Only one races, but half of the regulars, including the oldest, ride centuries at almost every opportunity, frequently making their own opportunity. Although there are a few "SODe" (Solo On a Sike), gent ride in groups of three to ten, and these groups typically ride twenty to fifty miles three times a work.

Com of meveral special interest groups within the DARC, the RDH has its own shirts, emblacemed with its own symbol (see illustration), its own column in the Club's mouthly belieffs, and even a bit of its own special language. "Weather wimps" don't ride at temperatures below 50 degrees. "River rate" ride the socily level riverside bike paths, while "hill billies" (called "hill bellies" by the river rate; ride the more mountainous paths.

Once the group was riding when one of our stronger earthquakes stronk. "Thought I had a flat," and "Thought I was skidding," were the most common reactions, but awaying power poles and power lines told the real story. All riders split for their respective boses only to flad minimal damage: a broken dish or two and maybe some cracked plaster. Hearby Whittler did not fore so well.

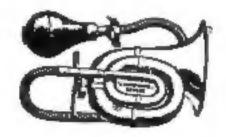
The NOS has had its share of typical bicycle tojeries. Lots of bruises and scrapes, a few lacerations requiring sutures, a broken arm, and nos scary period of 25 sicutes of unconsciousness. Usually our radios have enabled us to summon pictupe for broken bikes or minor injuries for ourselves or others, and as subvisors or two have been summoned for more serious injuries.



Frequently supporting bike ridet spondared by various organizations, the DARC usually provides a base control station, portables along the roots, bloycle mobiles more or less evenly spaced among the riders and one bike mobile "sweep" bringing up the rear to ensure no one is left behind.

Our most intense sumrgency occurred while supporting a Kawada-sponsored half-century. The NOS had to call for police help when a uniper took a few pot shore at or seer participating bikers. As amtomishing number of police and a police helicopter rounded up the emiper in short order.

Warren Pope, RGJFX 8420 Quinn St Downey, CA 90241



THE IRONBUTT 24 HOUR MARATHON October 12-13, 1991 Oblahoma City, OK

Here is an event for the masochist among us. An opportunity to suffer eleep deprivation and pain simultaneously. I have first hand experience having participated in the inaugural running of the event (I rode a paltry 258 miles, couldn't handle the lack of sleep and stopped for a map during the might). I think I'll limit my participation to support from now on I just love to watch suffering.

All kidding aside, INGNEUTT is a great event with opportunities to receive UNCA Mational points and set nationally recognized records in 5-year age groups in male, female, and tandem categories.

For those of us who are not so gungho there is a new event called TIMBUTT, a 12 hour event, which also serves as a qualifier for IRCHBUTT. TIMBUTT will be held on June 28 at the same location. You may also qualify for IRCHBUTT by riding at least 200 miles in 24 hrs. For further info contact me via packet (VASJRH @ VBSFVE.OK) or the event promoter, Red Callaway, 4505 W. Utah Ave. Ohlahome City, OK 73112 (405)942-4592.

Hank Blackstock, VA5JRE P.O. Box 20061 Oklahome City, OK 73156-0081

HOME-BREW PROJECTS

A CHEAP GROUNDPLANE FOR YOUR VERTICAL

I have a 1/4 wave and a 5/8 wave 2 meter mag-mount that I use for my bicycle mobile operations. They work much better than a rubber duck, but due to the bicycle's poor groundplane they do not perform as well as they would on a car roof. Since I run an IC-2AT, with only 1.5 watts maximum output, I need all the help I can get in using it most efficiently. I set about trying to find some kind of a groundplane for the bike.

I tried a number of ideas, haping to find a good, lightweight groundplane. I took the steel rack from my old Sears 3-speed and put it on my mountain bike, which I run my bioycle mobile operations off of. The magnounts stuck to it by themselves, but there was no difference in the mignal strength. A few times I put a steel cookie sheet on the rack and put the magnount on top of that. That improved my mignal tremendously, but was too cumbersome for normal use.

Finally, one day when I was talking with a friend on the local repeater, it hit me. I was at home using the HT with my homebrew groundplane that bangs in a corner of my chack. I thought to myself, "A simple 1/4 wave radiator really doesn't do much of anything, but with RADIALS I can hit the repeater 26 miles away almost DFQ on low power. It's all in the radials..."

After the chat I went downstairs and decided to try to build a set of radials — not a full groundplane, just radials. I used some steel wire left over from my direction-finding entenns. I cut two lengths of wire about 4 feet long. The length is not important since I trimmed them down later.

The notual length also depends on the width of your rack. I then twisted the two pieces of wire together in the middle to form an I and moldered them. Then I put them on my biks sandwiched between the rack and the autenna. I bent the radials down at a 45 degree angle at the edge of the rack, not right at the center point, i figured that even though the bike frame itself is not a good groundplane, it still might belp somewhat, so I made sure that the antenna ground still made contact with the frame. I measured 19 inches (for 2 meters) from the edge of the rack, again not including the length of wire that is on the rack, and out the radials to size. Then it was time to test it.

I put the 5/8 mag mount on the rack without the radials and joined some friends on a fairly distant repeater. Then I put the radials on by sandwiching them between the rack and the antenna. On my next transmission I asked if there was any improvement. Everyone said that it was a drestic improvement! The simple addition of radials worked just as well as the cookie sheet, and they were lightweight and easily removable. The nice thing about the steel wire is that it is strong enough to keep its shape, but it is still flexible enouth not to break if you mensuver a little too close to a tree, car, or person. Even is they do get bent, they can easily be bent back into chape. This is the best groundplane I know of right now for a bicycle. It can enetly be adapted for use with a "permanent" antenna, too. It is very cheap, easy to build, and brings a vast improvement to your mignal. What more could a bicycler ambiler went?

Justin Hughes, KA10LT 252 Stow Rd. Harvard, MA 01451

MEMBERSHIP APPLICATION

BICYCLE MOBILE BANS OF AMERICA (BMHA) Please complete and return to: BMHA PO Box 4009 Boulder, CO 80306 (check one) new member ____ renewel___

License Class

Address

City, State

210

Regular Membership: \$10 per year Additional contributions will help defray cost of preparing and mailing the quarterly BNHA NewsLetter.

Ca 12

Enclosed is my check for \$ (Nake checks payable to BNSA, Bicycle Nobile Hams of America)

QSL CORNER

In this space we feature QSL cards that have a bicycle-mobile motif. Send yours in. We'll run it.







CONTACT

This is a new department in the BARA NewsLetter, the object being to establish a clearing house where our readers can exchange information. Send in your request -- we'll run it.

"I'd like to contact anyone who has had experience using solar power on the bite while under way."
Hartley Alley, BAGA SGS 494 6559
Box 4009
Boulder, CO 80306

BERA WEVELETTER Bicycle Mobile Base of America PO Box 4009 Boulder, CO 80306

Address Correction Requested

First Class Mail